Figure 2A. DNA and deduced amino acid sequences of hG-CSF-L-vFc$_{\gamma 2}$

DNA SEQ ID NO: 17
Amino Acid Sequence SEQ ID NO: 18

```
aag ctt ccc aga ccc atg gct gga cct gcc acc cag agc ccc atg aag ctg atg gcc ctg      60
HindIII              M   A   G   P   A   T   Q   S   P   M   K   L   M   A   L
                    -30                                     -20
cag ctg ctg ctg tgg cac agt gca ctc tgg aca gtg cag gaa gcc acc ccc ctg ggc cct    120
 Q   L   L   L   W   H   S   A   L   W   T   V   Q   E   A   T   P   L   G   P
                    -10                                     -1   1
gcc agc tcc ctg ccc cag agc ttc ctg ctc aag tgc tta gag caa gtg agg aag atc cag    180
 A   S   S   L   P   Q   S   F   L   L   K   C   L   E   Q   V   R   K   I   Q
                10                                      20
ggc gat ggc gca gcg ctc cag gag aag ctg tgt gcc acc tac aag ctg tgc cac ccc gag    240
 G   D   G   A   A   L   Q   E   K   L   C   A   T   Y   K   L   C   H   P   E
                30                                      40
gag ctg gtg ctg ctc gga cac tct ctg ggc atc ccc tgg gct ccc ctg agc agc tgc ccc    300
 E   L   V   L   L   G   H   S   L   G   I   P   W   A   P   L   S   S   C   P
                50                                      60
agc cag gcc ctg cag ctg gca ggc tgc ttg agc caa ctc cat agc ggc ctt ttc ctc tac    360
 S   Q   A   L   Q   L   A   G   C   L   S   Q   L   H   S   G   L   F   L   Y
                70                                      80
cag ggg ctc ctg cag gcc ctg gaa ggg atc tcc ccc gag ttg ggt ccc acc ttg gac aca    420
 Q   G   L   L   Q   A   L   E   G   I   S   P   E   L   G   P   T   L   D   T
                90                                      100
ctg cag ctg gac gtc gcc gac ttt gcc acc acc atc tgg cag cag atg gaa gaa ctg gga    480
 L   Q   L   D   V   A   D   F   A   T   T   I   W   Q   Q   M   E   E   L   G
               110                                      120
atg gcc cct gcc ctg cag ccc acc cag ggt gcc atg ccg gcc ttc gcc tct gct ttc cag    540
 M   A   P   A   L   Q   P   T   Q   G   A   M   P   A   F   A   S   A   F   Q
               130                                      140
cgc cgg gca gga ggg gtc cta gtt gcc tcc cat ctg cag agc ttc ctg gag gtg tcg tac    600
 R   R   A   G   G   V   L   V   A   S   H   L   Q   S   F   L   E   V   S   Y
               150                                      160
cgc gtt cta cgc cac ctt gcc cag ccc gga tcc ggt ggc ggt tcc ggt gga ggc gga agc    660
 R   V   L   R   H   L   A   Q   P   G   S   G   G   G   S   G   G   G   G   S
               170                                      180
ggc ggt gga gga tca gag cgc aaa tgt tgt gtc gag tgc cca ccg tgc cca gca cca cct    720
 G   G   G   G   S   E   R   K   C   C   V   E   C   P   P   C   P   A   P   P
               190                                      200
gtg gca gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc atg atc tcc    780
 V   A   G   P   S   V   F   L   F   P   P   K   P   K   D   T   L   M   I   S
               210                                      220
cgg acc cct gag gtc acg tgc gtg gtg gtg gac gtg agc cac gaa gac ccc gag gtc cag    840
 R   T   P   E   V   T   C   V   V   V   D   V   S   H   E   D   P   E   V   Q
               230                                      240
ttc aac tgg tac gtg gac ggc gtg gag gtg cat aat gcc aag aca aag cca cgg gag gag    900
 F   N   W   Y   V   D   G   V   E   V   H   N   A   K   T   K   P   R   E   E
               250                                      260
cag ttc aac agc acg ttc cgt gtg gtc agc gtc ctc acc gtt gtg cac cag gac tgg ctg    960
 Q   F   N   S   T   F   R   V   V   S   V   L   T   V   V   H   Q   D   W   L
               270                                      280
aac ggc aag gag tac aag tgc aag gtc tcc aac aaa ggc ctc cca gcc tcc atc gag aaa   1020
 N   G   K   E   Y   K   C   K   V   S   N   K   G   L   P   A   S   I   E   K
               290                                      300
acc atc tcc aaa acc aaa ggg cag ccc cga gaa cca cag gtg tac acc ctg ccc cca tcc   1080
 T   I   S   K   T   K   G   Q   P   R   E   P   Q   V   Y   T   L   P   P   S
               310                                      320
cgg gag gag atg acc aag aac cag gtc agc ctg acc tgc ctg gtc aaa ggc ttc tac ccc   1140
 R   E   E   M   T   K   N   Q   V   S   L   T   C   L   V   K   G   F   Y   P
               330                                      340
agc gac atc gcc gtg gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc aca   1200
 S   D   I   A   V   E   W   E   S   N   G   Q   P   E   N   N   Y   K   T   T
               350                                      360
cct ccc atg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc aag ctc acc gtg gac aag   1260
 P   P   M   L   D   S   D   G   S   F   F   L   Y   S   K   L   T   V   D   K
               370                                      380
agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtg atg cat gag gct ctg cac aac   1320
 S   R   W   Q   Q   G   N   V   F   S   C   S   V   M   H   E   A   L   H   N
               390                                      400
cac tac acg cag aag agc ctc tcc ctg tct ccg ggt aaa tga gaa ttc                   1368
 H   Y   T   Q   K   S   L   S   L   S   P   G   K       EcoRI
               410                                  418
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Figure 2B. DNA and deduced amino acid sequences of hG-CSF-L-vFc$_{\gamma 4}$

DNA SEQ ID NO: 19
Amino Acid Sequence SEQ ID NO: 20

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aag ctt ccc aga ccc atg gct gga cct gcc acc cag agc ccc atg aag ctg atg gcc ctg     60
HindIII              M   A   G   P   A   T   Q   S   P   M   K   L   M   A   L
                    -30                                     -20
cag ctg ctg ctg tgg cac agt gca ctc tgg aca gtg cag gaa gcc acc ccc ctg ggc cct    120
 Q   L   L   L   W   H   S   A   L   W   T   V   Q   E   A   T   P   L   G   P
                    -10                                     -1   1
gcc agc tcc ctg ccc cag agc ttc ctg ctc aag tgc tta gag caa gtg agg aag atc cag    180
 A   S   S   L   P   Q   S   F   L   L   K   C   L   E   Q   V   R   K   I   Q
                10                                      20
ggc gat ggc gca gcg ctc cag gag aag ctg tgt gcc acc tac aag ctg tgc cac ccc gag    240
 G   D   G   A   A   L   Q   E   K   L   C   A   T   Y   K   L   C   H   P   E
                30                                      40
gag ctg gtg ctg ctc gga cac tct ctg ggc atc ccc tgg gct ccc ctg agc agc tgc ccc    300
 E   L   V   L   L   G   H   S   L   G   I   P   W   A   P   L   S   S   C   P
                50                                      60
agc cag gcc ctg cag ctg gca ggc tgc ttg agc caa ctc cat agc ggc ctt ttc ctc tac    360
 S   Q   A   L   Q   L   A   G   C   L   S   Q   L   H   S   G   L   F   L   Y
                70                                      80
cag ggg ctc ctg cag gcc ctg gaa ggg atc tcc ccc gag ttg ggt ccc acc ttg gac aca    420
 Q   G   L   L   Q   A   L   E   G   I   S   P   E   L   G   P   T   L   D   T
                90                                      100
ctg cag ctg gac gtc gcc gac ttt gcc acc acc atc tgg cag cag atg gaa gaa ctg gga    480
 L   Q   L   D   V   A   D   F   A   T   T   I   W   Q   Q   M   E   E   L   G
               110                                     120
atg gcc cct gcc ctg cag ccc acc cag ggt gcc atg ccg gcc ttc gcc tct gct ttc cag    540
 M   A   P   A   L   Q   P   T   Q   G   A   M   P   A   F   A   S   A   F   Q
               130                                     140
cgc cgg gca gga ggg gtc cta gtt gcc tcc cat ctg cag agc ttc ctg gag gtg tcg tac    600
 R   R   A   G   G   V   L   V   A   S   H   L   Q   S   F   L   E   V   S   Y
               150                                     160
cgc gtt cta cgc cac ctt gcc cag ccc gga tcc ggt ggc ggt tcc ggt gga ggc gga agc    660
 R   V   L   R   H   L   A   Q   P   G   S   G   G   G   S   G   G   G   G   S
               170                                     180
ggc ggt gga gga tca gag tcc aaa tat ggt ccc cca tgc cca cca tgc cca gca cct gag    720
 G   G   G   G   S   E   S   K   Y   G   P   P   C   P   P   C   P   A   P   E
               190                                     200
ttc gcg ggg gga cca tca gtc ttc ctg ttc ccc cca aaa ccc aag gac act ctc atg atc    780
 F   A   G   G   P   S   V   F   L   F   P   P   K   P   K   D   T   L   M   I
               210                                     220
tcc cgg acc cct gag gtc acg tgc gtg gtg gtg gac gtg agc cag gaa gac ccc gag gtc    840
 S   R   T   P   E   V   T   C   V   V   V   D   V   S   Q   E   D   P   E   V
               230                                     240
cag ttc aac tgg tac gtg gat ggc gtg gag gtg cat aat gcc aag aca aag ccg cgg gag    900
 Q   F   N   W   Y   V   D   G   V   E   V   H   N   A   K   T   K   P   R   E
               250                                     260
gag cag ttc aac agc acg tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg    960
 E   Q   F   N   S   T   Y   R   V   V   S   V   L   T   V   L   H   Q   D   W
               270                                     280
ctg aac ggc aag gag tac aag tgc aag gtc tcc aac aaa ggc ctc ccg tcc tcc atc gag   1020
 L   N   G   K   E   Y   K   C   K   V   S   N   K   G   L   P   S   S   I   E
               290                                     300
aaa acc atc tcc aaa gcc aaa ggg cag ccc cga gag cca cag gtg tac acc ctg ccc cca   1080
 K   T   I   S   K   A   K   G   Q   P   R   E   P   Q   V   Y   T   L   P   P
               310                                     320
tcc cag gag gag atg acc aag aac cag gtc agc ctg acc tgc ctg gtc aaa ggc ttc tac   1140
 S   Q   E   E   M   T   K   N   Q   V   S   L   T   C   L   V   K   G   F   Y
               330                                     340
ccc agc gac atc gcc gtg gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc   1200
 P   S   D   I   A   V   E   W   E   S   N   G   Q   P   E   N   N   Y   K   T
               350                                     360
acg cct ccc gtg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc agg cta acc gtg gac   1260
 T   P   P   V   L   D   S   D   G   S   F   F   L   Y   S   R   L   T   V   D
               370                                     380
aag agc agg tgg cag gag ggg aat gtc ttc tca tgc tcc gtg atg cat gag gct ctg cac   1320
 K   S   R   W   Q   E   G   N   V   F   S   C   S   V   M   H   E   A   L   H
               390                                     400
aac cac tac aca cag aag agc ctc tcc ctg tct ctg ggt aaa tga gaa ttc               1371
 N   H   Y   T   Q   K   S   L   S   L   S   L   G   K       EcoRI
               410                                     419
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Figure 2C. DNA and deduced amino acid sequences of hG-CSF-L-vFc$_{\gamma 1}$

DNA SEQ ID NO: 21
Amino Acid Sequence SEQ ID NO: 22

```
aag ctt ccc aga ccc atg gct gga cct gcc acc cag agc ccc atg aag ctg atg gcc ctg     60
HindIII            M   A   G   P   A   T   Q   S   P   M   K   L   M   A   L
                  -30                                     -20
cag ctg ctg ctg tgg cac agt gca ctc tgg aca gtg cag gaa gcc acc ccc ctg ggc cct    120
 Q   L   L   L   W   H   S   A   L   W   T   V   Q   E   A   T   P   L   G   P
                  -10                                     -1   1
gcc agc tcc ctg ccc cag agc ttc ctg ctc aag tgc tta gag caa gtg agg aag atc cag    180
 A   S   S   L   P   Q   S   F   L   L   K   C   L   E   Q   V   R   K   I   Q
              10                                          20
ggc gat ggc gca gcg ctc cag gag aag ctg tgt gcc acc tac aag ctg tgc cac ccc gag    240
 G   D   G   A   A   L   Q   E   K   L   C   A   T   Y   K   L   C   H   P   E
              30                                          40
gag ctg gtg ctg ctc gga cac tct ctg ggc atc ccc tgg gct ccc ctg agc agc tgc ccc    300
 E   L   V   L   L   G   H   S   L   G   I   P   W   A   P   L   S   S   C   P
              50                                          60
agc cag gcc ctg cag ctg gca ggc tgc ttg agc caa ctc cat agc ggc ctt ttc ctc tac    360
 S   Q   A   L   Q   L   A   G   C   L   S   Q   L   H   S   G   L   F   L   Y
              70                                          80
cag ggg ctc ctg cag gcc ctg gaa ggg atc tcc ccc gag ttg ggt ccc acc ttg gac aca    420
 Q   G   L   L   Q   A   L   E   G   I   S   P   E   L   G   P   T   L   D   T
              90                                          100
ctg cag ctg gac gtc gcc gac ttt gcc acc acc atc tgg cag cag atg gaa gaa ctg gga    480
 L   Q   L   D   V   A   D   F   A   T   T   I   W   Q   Q   M   E   E   L   G
             110                                          120
atg gcc cct gcc ctg cag ccc acc cag ggt gcc atg ccg gcc ttc gcc tct gct ttc cag    540
 M   A   P   A   L   Q   P   T   Q   G   A   M   P   A   F   A   S   A   F   Q
             130                                          140
cgc cgg gca gga ggg gtc cta gtt gcc tcc cat ctg cag agc ttc ctg gag gtg tcg tac    600
 R   R   A   G   G   V   L   V   A   S   H   L   Q   S   F   L   E   V   S   Y
             150                                          160
cgc gtt cta cgc cac ctt gcc cag ccc gga tcc ggt ggc ggt tcc ggt gga ggc gga agc    660
 R   V   L   R   H   L   A   Q   P   G   S   G   G   G   S   G   G   G   G   S
             170                                          180
ggc ggt gga gga tca gac aaa act cac aca tgc cca ccg tgc cca gca cct gaa gtc gcg    720
 G   G   G   G   S   D   K   T   H   T   C   P   P   C   P   A   P   E   V   A
             190                                          200
ggg gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc atg atc tcc cgg    780
 G   G   P   S   V   F   L   F   P   P   K   P   K   D   T   L   M   I   S   R
             210                                          220
aca cct gag gtc aca tgc gtg gtg gtg gac gtg agc cac gaa gac cct gag gtc aag ttc    840
 T   P   E   V   T   C   V   V   V   D   V   S   H   E   D   P   E   V   K   F
             230                                          240
aac tgg tac gtg gac ggc gtg gag gtg cat aat gcc aag aca aag ccg cgg gag gag cag    900
 N   W   Y   V   D   G   V   E   V   H   N   A   K   T   K   P   R   E   E   Q
             250                                          260
tac aac agc acg tac cgg gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg aat    960
 Y   N   S   T   Y   R   V   V   S   V   L   T   V   L   H   Q   D   W   L   N
             270                                          280
ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc tcc atc gag aaa acc   1020
 G   K   E   Y   K   C   K   V   S   N   K   A   L   P   A   S   I   E   K   T
             290                                          300
atc tcc aaa gcc aaa ggg cag ccc cga gaa cca cag gtg tac acc ctg ccc cca tcc cgg   1080
 I   S   K   A   K   G   Q   P   R   E   P   Q   V   Y   T   L   P   P   S   R
             310                                          320
gat gag ctg acc aag aac cag gtc agc ctg acc tgc ctg gtc aaa ggc ttc tat ccc agc   1140
 D   E   L   T   K   N   Q   V   S   L   T   C   L   V   K   G   F   Y   P   S
             330                                          340
gac atc gcc gtg gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc acg cct   1200
 D   I   A   V   E   W   E   S   N   G   Q   P   E   N   N   Y   K   T   T   P
             350                                          360
ccc gtg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc aag ctc acc gtg gac aag agc   1260
 P   V   L   D   S   D   G   S   F   F   L   Y   S   K   L   T   V   D   K   S
             370                                          380
agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtg atg cat gag gct ctg cac aac cac   1320
 R   W   Q   Q   G   N   V   F   S   C   S   V   M   H   E   A   L   H   N   H
             390                                          400
tac acg cag aag agc ctc tcc ctg tct ccg ggt aaa tga gaa ttc                       1365
 Y   T   Q   K   S   L   S   L   S   P   G   K       EcoRI
             410                                  417
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